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Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
 SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
 COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. --- DATE DR
 Station --- LOGGED BY 1/30-31/2012
 BORING NO. BS-10 GSI JOB No. 09174
 Station 282+75
 Offset 22.5' Right
 Ground Surface Elev. 632.5

DEPTH (ft)	BLOW S	UCS Qu (tsf)	MOIST Qu (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elevation:		DEPTH (ft)	BLOW S	UCS Qu (tsf)	MOIST Qu (%)
				n/a	n/a	First Encounter	Upon Completion	n/a	After				
510.5													
Run 1 continued. RUN 1													
Silurian System, Niagaran Series Dolomite RUN 1 (-122.0' to -127.0') Light gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -122.3'. Horizontal fractures @ -124.3', -124.8', -125.0', -125.7', -125.9' & -126.3'. Recovery=100.0% RQD=90.0%													
505.5													
End Of Boring @ -127.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 114.0' Of 4.0" Casing Used CME Automatic Hammer													
-130													
-135													
-140													

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

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ROCK CORE LOG

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
 SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
 COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. --- DATE DR
 Station --- LOGGED BY 1/30-31/2012
 BORING NO. BS-10 GSI JOB No. 09174
 Station 282+75
 Offset 22.5' Right
 Ground Surface Elev. 632.5

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Core Diameter 2.0 in
 Top of Rock Elev. 520.5
 Begin Core Elev. 520.5

DEPTH (ft)	CORRE (%)	RECOVERY (%)	R-Q (min/ft)	CORRE (min/ft)	STRENGTH (tsf)
1	99.0	96.5	n/a	114.0	112.0
Silurian System, Niagaran Series Dolomite RUN 1 (-112.0' to -122.0') Gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -116.2', changing to light gray & fine grained with horizontal bedding @ -119.2'. Horizontal fractures @ -113.7', -116.5', -117.4', -117.8', -118.0', -118.6', -119.1' & -119.8'.					
-117					
-122					



Color pictures of the cores Yes Cores will be stored for examination for ---
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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 Offset 22.5' Right
 Ground Surface Elev. 632.5

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
 Core Diameter 2.0 in
 Top of Rock Elev. 510.5
 Begin Core Elev. 510.5

DEPTH (ft)	CORRE (%)	RECOVERY (%)	R-Q (min/ft)	CORRE (min/ft)	STRENGTH (tsf)
2	100.0	90.0	n/a	81.0	122.0
Silurian System, Niagaran Series Dolomite RUN 1 (-122.0' to -127.0') Light gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -122.3'. Horizontal fractures @ -124.3', -124.8', -125.0', -125.7', -125.9' & -126.3'.					
-127					
-132					



Color pictures of the cores Yes Cores will be stored for examination for ---
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



USER NAME =	DESIGNED - EVS	REVISED
PLOT SCALE =	CHECKED - WJV	REVISED
PLOT DATE =	DRAWN - EVS	REVISED
	CHECKED - WJV	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 016-1280**

SHEET NO. 19 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	274
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				